

### WHAT IS CLAIMED IS:

1. An island type mobile communication arrangement, comprising:

a plurality of BTSs, each corresponding to and set within a cell, and used to provide a mobile communication service to at least one mobile communication device in the cell, a plurality of the cells forming at least one local area including at least one island cell, each island cell having an island BTS;

an island BSC connected to the island BTS and used to control the operation whereof;

an island MSC connected to the island BSC and used to control the operation whereof, at least one mobile communication device asks the island MSC for location updating while entering the at least one island cell; and

an island VLR corresponding to and connected to the island MSC, when the at least one mobile communication device finishes location updating, the island VLR records a MSISDN of each mobile communication device;

wherein the island MSC provides a special service to the at least one mobile communication device in the at least one island cell by reading the MSISDNs recorded in the island VLR.

2. The island type mobile communication arrangement as claimed in claim 1, wherein the special service is a short message service.

3. The island type mobile communication arrangement as claimed in claim 1, wherein the special service is a multimedia message service.

4. The island type mobile communication arrangement as claimed in claim 1, further comprising:

at least one BSC corresponding to the at least one local area, each BSC connects to the BTSs in the corresponding local area and controlling the operation thereof;

at least one MSC corresponding to and connected to the at least one BSC, and controlling the operation thereof;

at least one VLR corresponding to and connected to the at least one BSC, and used to record the MSISDN of each mobile communication device in the cell corresponding to one of the BTSs; and

at least one HLR corresponding to and connected to the at least one MSC, and used to record basic data and identification data of the at least one mobile communication device.

5. The island type mobile communication arrangement as claimed in claim 4, wherein when one of the mobile communication devices enters into the cell corresponding to one of the BTSs, the VLR corresponding to the BTS records the MSISDN of the mobile communication device; when the mobile communication device enters into the cell corresponding to the island BTS, the island VLR records the MSISDN of the mobile communication device, and the VLR deletes the MSISDN therein.

6. The island type mobile communication arrangement as claimed in claim 4, wherein the at least one MSC is coupled to at least one EIR, HLR, AUC, and GMSC.

7. The island type mobile communication arrangement as claimed in

claim 6, wherein the island MSC is coupled to the at least one EIR, HLR, AUC, and GMSC.

8. The island type mobile communication arrangement as claimed in claim 1, wherein the island type mobile communication arrangement is a  
5 kind of cell based communication arrangement.

9. The island type mobile communication arrangement as claimed in claim 8, wherein the cell based communication arrangement is a GSM.

10. The island type mobile communication arrangement as claimed in claim 8, wherein the cell based communication arrangement is a UMT.

10 11. The island type mobile communication arrangement as claimed in claim 8, wherein the cell based communication arrangement is a third generation mobile communication arrangement.

12. The island type mobile communication arrangement as claimed in claim 1, wherein the mobile communication device is a cellular phone.

15 13. The island type mobile communication arrangement as claimed in claim 1, wherein the mobile communication device is a PDA.

14. The island type mobile communication arrangement as claimed in claim 1, wherein the mobile communication device is a smart phone.